

Health and Mortality during the Transition to Retirement in Southern Spain

Longitudinal Analysis of Mortality Differences in Andalucia

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- ① Background
- ② Research Question
- ③ More Background
- ④ Data
- ⑤ Results

Population Aging in Southern Europe

- Baby boomer cohorts in Spain are reaching retirement age
- *Old-Age Dependency Ratio* is projected to increase from 0.3 to 0.5 until 2050
- Social Security Funds affected directly and indirectly by the financial and debt crisis of 2008 (Spain 2011)
- Reformed pension system - public pensions will be based on "sustainability factor" including life expectancy instead of inflation

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- *Socio-economic Health and Mortality Gradient*: structural advantages for better educated and wealthier individuals
- Life course perspective: lagged effects of social position on health visible at the end of the life course

How does social position determine the health and survival of the retired population?

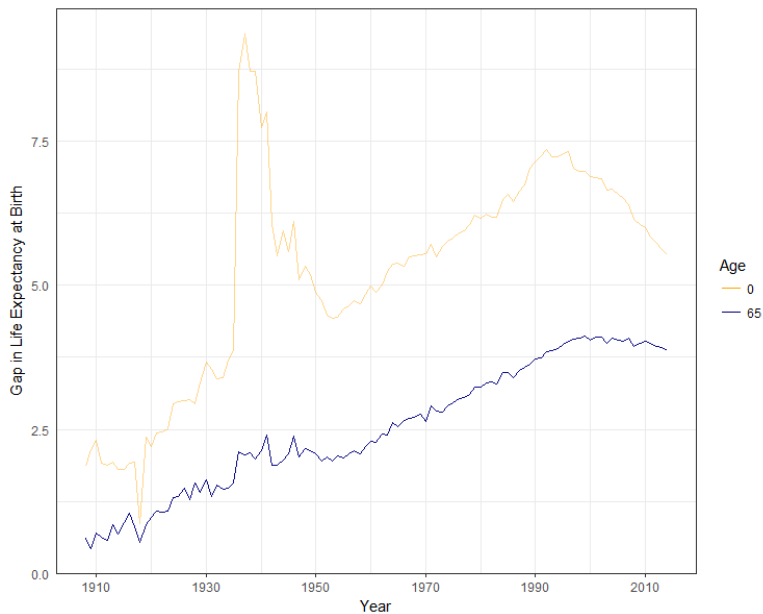
Background - Mortality Differentials in Spain

- High income, low mortality
 - highest female life expectancy at birth in Europe
 - historically low socioeconomic mortality differences
- Estimating the effects of wealth indicators on the survival of the retired population

Theoretical relationship of income and health

- Absolute Income Hypothesis (AIH)
indirect effect of individual income on health mainly through social participation
- Relative Income Hypotheses (RIH)

Gap in Life Expectancy between the Sexes (Women - Men)



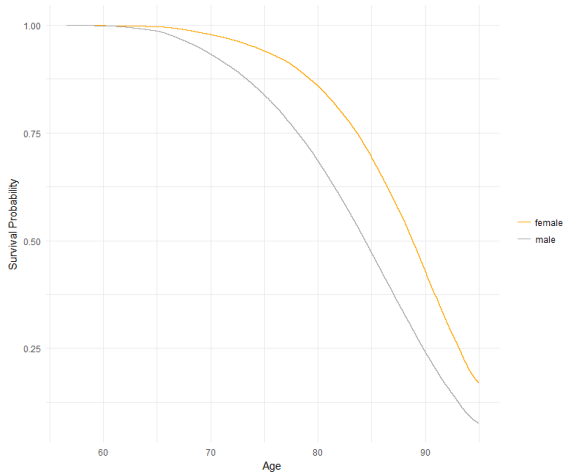
Data

- Longitudinal Mortality Register of Andalusia
 - Based on the population and housing census 2001
 - Mortality follow up of a 10% sample
- NISS retirement data
 - Biannual follow up social security information of all pensioners in the public system
 - Study population: every individual who has entered the pension system between 2011 and the end of 2015

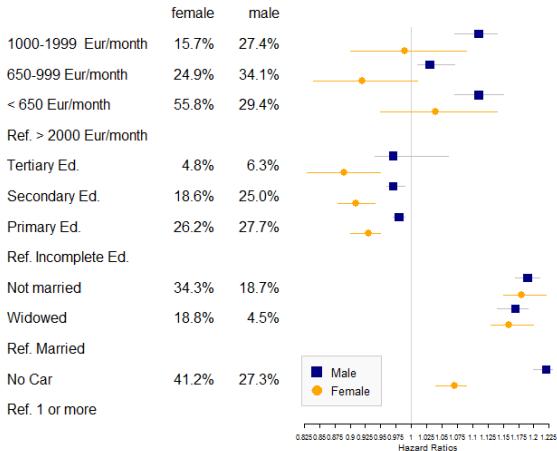
Methodology

- Analyzing survival during the transition to retirement by socio-economic measures (pension income)
- Stratified Cox Proportional Hazard Model

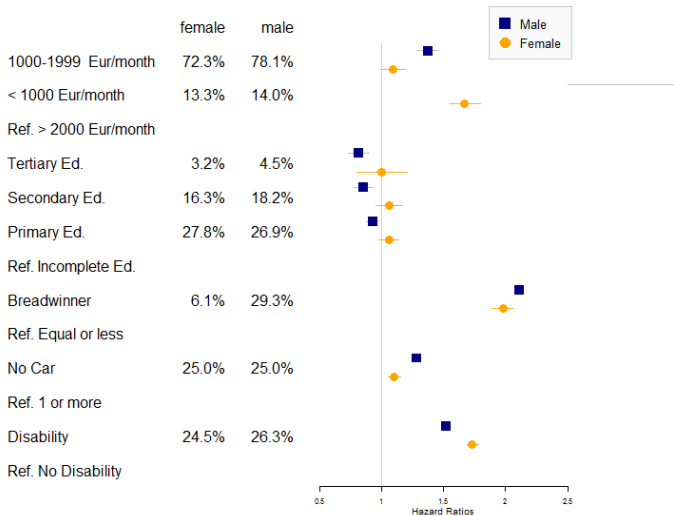
Kaplan Meier Survival Curve



Cox PH - Individual Pension



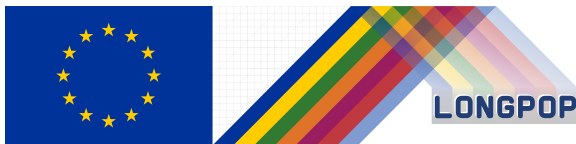
Cox PH - Household Pension Income



- Indication for a survival disadvantage for men with low income and low income households
- Pension level conversion formulas potentially enhance survival differences

What is next?

- Quality of Life indicators (Encuesta sobre Discapacidades, Autonomía personal y situaciones de Dependencia - EDAD)
- Effects of changes in the retirement timing



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Thank you!